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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,136	10/06/2003	Shinichiro Goto	107439-00098	1080

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EXAMINER

SHIU, HO T

ART UNIT	PAPER NUMBER
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2157

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/678,136	Applicant(s) GOTO, SHINICHIRO	
	Examiner HO SHIU	Art Unit 2157	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 May 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 11-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2 and 11-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-2, and 11-14 are pending in this application. Claims 3-10 are cancelled and claims 11-14 were added by amendment filed by applicant on 05/09/2008.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kolls (US Patent # 7,003,289, hereinafter Kolls) in view of Bereznyi et al (US Patent # 6,449,695 B1, hereinafter Berez).**

4. With respect to claim1, Kolls discloses a client-server vehicle data communication system, comprising: a server (col. 6, lines 25-34); a service contents managing section for managing a plurality of service contents to be provided to a client terminal of a vehicle, wherein the service contents managing section includes a cache identifier providing section for assigning each service content provided to the client terminal a cache identifier which indicates a data cache stored duration time in the client terminal, so as to manage the data cache stored duration time of the service content

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(col. 6, lines 44-63), wherein the client terminal uses the server, and a cache state managing section for managing the data cache stored duration time of the service content is provided from the server according to the cache identifier assigned to the service content (col. 6, lines 45-63); and a request sending section for sending a request signal for the service content to the server, where the server content is provided from the server when the request signal is received by the server (col. 51, lines 12-52, col. 26, lines 41-58); wherein the cache identifier indicates a condition for caching of the service content (col. 51, lines 12-52, col. 26, lines 41-58) but does not clearly disclose wherein when a request for the service content is again issued in the client terminal while the condition for the caching is satisfied and the service content is cached in a memory of the client terminal, the service content in the memory is read out without sending the request signal for the service content to the server.

However, in the same field of endeavor, Berez discloses wherein when a request for the service content is again issued in the client terminal while the condition for the caching is satisfied and the service content is cached in a memory of the client terminal, the service content in the memory is read out without sending the request signal for the service content to the server (abstract, col. 1, lines 12-26).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Kolls with the teachings of Berez in order to avoid the need to download the same data again from the data source (col. 1, lines 12-26).

5. Claims 2, and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kolls in view of Berez and in further view of Irons et al. (US Patent # 5,999,876, hereinafter Irons).

6. With respect to claim 2, Kolls and Berez does not clearly disclose the assigned cache identifier is selected from a group comprising: an identifier for indicating that the service content is not stored in the client terminal; an identifier for indicating that the service content is temporarily stored until an engine of the vehicle is stopped; an identifier for indicating that the service content is stored even after the engine of the vehicle is stopped; an identifier for indicating that the service content is stored while a travel distance of the vehicle from where the vehicle obtained the service content is within a predetermined value; and an identifier for indicating that the service content is stored from when the vehicle obtains the service content until a predetermined time has elapsed.

However, in the same field of endeavor, Irons discloses the assigned cache identifier is selected from a group comprising: an identifier for indicating that the service content is not stored in the client terminal; an identifier for indicating that the service content is temporarily stored until an engine of the vehicle is stopped; an identifier for indicating that the service content is stored even after the engine of the vehicle is stopped (col. 3, lines 20-26); an identifier for indicating that the service content is stored while a travel distance of the vehicle from where the vehicle obtained the service content is within a predetermined value; and an identifier for indicating that the service

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content is stored from when the vehicle obtains the service content until a predetermined time has elapsed.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Kolls and Berez with the teachings of Irons in order to establish a time when data can be retrieved so that an adequate time for all of the data caches to be stored or reset is provided (col. 8, lines 7-17).

7. With respect to claim 11, it is rejected for the same reasons as claim 2 above. In addition, Irons discloses wherein the cache state managing section deletes data of the service content stored in the memory of the client terminal based on the cache identifier (col. 5, lines 16-24).

8. With respect to claim 12, Kolls discloses wherein the assigned cache identifier is an identifier for indicating that the service content is not stored in the client terminal (col. 5, lines 12-52)

9. With respect to claim 13, it is rejected for the same reasons as claim 2 above. In addition, Irons discloses wherein the assigned cache identifier is an identifier for indicating that the service content is temporarily stored until an engine of the vehicle is stopped (abstract, col. 3, lines 20-26).

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10. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kolls in view of Berez and in further view of Desens et al. (US Patent # 6,097,314, hereinafter Desens).

11. With respect to claim 14, Kolls and Berez does not clearly disclose wherein the assigned cache identifier is an identifier for indicating that the service content is stored while a travel distance of the vehicle from where the vehicle obtained the service content is within a predetermined value.

However, in the same field of endeavor, Desens discloses wherein the assigned cache identifier is an identifier for indicating that the service content is stored while a travel distance of the vehicle from where the vehicle obtained the service content is within a predetermined value (col. 2, lines 37-45).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Kolls and Berez with the teachings of Desens in order to limit the required storage capacity site for storing the data.

12. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsugatani (US Pub # 2003/0055924, hereinafter Matsugatani) in view of Irons and in further view of Berez and in even further view of Jacobs et al. (US Patent # 6,785,769 B1, hereinafter Jacobs) and Jenkins et al. (US Patent # 6,014,667,

hereinafter Jenkins).

13. With respect to claim 1, Matsugatani discloses a client-server vehicle data communication system ([0008], lines 2-8), comprising: a server [abstract]; a service contents managing section for managing a plurality of service contents to be provided to a client terminal of a vehicle ([0035], lines 1-8, [0046], line 1-3), a request sending section for sending a request signal for the service content to the server, where the server content is provided from the server when the request signal is received by the server ([0039], lines 1-6). Although Matsugatani discloses cache identifiers, Matsugatani does not clearly disclose wherein the service contents managing section includes a cache identifier providing section for assigning each service content provided to the client terminal a cache identifier which indicates a data cache stored duration time in the client terminal, so as to manage the data cache stored duration time of the service content, wherein the client terminal which uses the server and includes a cache state managing section for managing the data cache state of the service content provided from the server, according to the cache identifier assigned to the service content; and wherein the cache identifier indicates a condition for caching of the service content, and wherein when a request for the service content is again issued in the client terminal while the condition for caching is satisfied an the service content is cached in a memory of the client terminal, the service content in the memory is read without sending the request signal for the service content to the server.

In the same field of endeavor, Irons discloses wherein the service contents managing section includes a cache identifier providing section for assigning each service content provided to the client terminal a cache identifier which indicates a data cache stored duration time in the client terminal (col. 3, lines 39-46, col. 8, lines 7-17), so as to manage the data cache stored duration time of the service content (col. 3, lines 39-46, col. 8, lines 7-17, although Irons does not disclose that there is a cache identifier, it is inherent that in order to know which cache files are suppose to have an expiration time, there has to be some sort of identification for the cache data to equate the data with an expiration time), wherein the client terminal which uses the server and includes a cache state managing section for managing the data cache state of the service content provided from the server, according to the cache identifier assigned to the service content (col. 8, lines 36-49, col. 8, lines 7-17); and wherein the cache identifier indicates a condition for caching of the service content (col. 5, lines 16-24).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Matsugatani with the teachings of Irons in order to establish a time when data can be retrieved so that an adequate time for all of the data caches to be stored or reset is provided (col. 8, lines 7-17).

However, Matsugatani and Irons does not clearly disclose wherein when a request for the service content is again issued in the client terminal while the condition for caching is satisfied an the service content is cached in a memory of the client terminal, the service content in the memory is read without sending the request signal for the service content to the server.

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In the same field of endeavor, Berez discloses wherein when a request for the service content is again issued in the client terminal while the condition for caching is satisfied and the service content is cached in a memory of the client terminal, the service content in the memory is read without sending the request signal for the service content to the server (abstract, col. 1, lines 12-26).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Matsugatani and Irons with the teachings of Berez in order to avoid the need to download the same data again from the data source (col. 1, lines 12-26) .

However, even though Matsugatani, Irons, and Berez discloses the invention, they do not clearly disclose the fact the cache state managing section for managing the data cache stored duration time of the service content is provided from the server.

In the same field of endeavor, Jacobs discloses the cache state managing section for managing the data cache stored duration time of the service content is provided from the server (col. 7, lines 24-34).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Matsugatani, Irons, and Berez with the teachings of Jacobs in order to be in full control when the data can be accessed and not have unauthorized users set the time limit of expiration of the data.

Although Matsugatani, Irons, Berez, and Jacobs discloses the claimed invention, Jenkins also discloses a cache identifier which indicates a data cache stored duration time (col. 3, lines 28-46, col. 7, lines 51-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Matsugatani, Irons, Berez, and Jacobs and the teachings of Jenkins in order to efficiently conserve memory space so that data that is no longer needed will be deleted or over written.

Response to Arguments

14. Applicant's arguments, with regards to claims 1-2, and 11-14 have been considered by are moot in view of the new ground(s) of rejection.

Conclusion

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later

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than SIX MONTHS from the date of this final action.

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HO SHIU whose telephone number is (571)270-3810.

The examiner can normally be reached on Mon-Thur (8:30am - 4:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 571-272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HTS
08/13/2008

Ho Ting Shiu
Patent Examiner
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Supervisory Patent Examiner, Art Unit 2157